



# Biotechnology Facility (BTF)



## Flight History

**Phase 1 scheduled Sept. 2006**

**Phase 2 scheduled Sept. 2008**

## **Engineering Description**

The Biotechnology Facility (BTF) will occupy two powered EXPRESS racks and associated sub-rack systems on the International Space Station (ISS). It will be a permanent modular, multi user facility to accommodate Cellular Biotechnology experiments onboard the ISS. The BTF design will support the continuous operation of a wide range of cellular biotechnology experiments that meet the requirements of the science community for conducting low-gravity, long-duration experiments. The BTF is comprised of the following major functional elements:

EXPRESS racks

Automated Stationary Culture System (ASCS)

Modular Rotating Bioreactor System

+4°C Refrigerator

-80°C Freezer

-180°C Cryofreezer

High purity water supply/Purification and Reagent-mixing system

Gas Supply Module

Fluids Tray

Internal Stowage capability

Analytical tools

Radiation and acceleration monitors